

TOWNSEND and TOWNSEND and CREW LLP

By: _____

Timothy J. Parker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Paul Hinton, et al.

Application No.: 10/687,118

Filed: October 15, 2003

For: ALTERATION OF FCRN
BINDING AFFINITIES OF SERUM
HALF-LIVES OF ANTIBODIES BY
MUTAGENESIS

Customer No. 20350

Confirmation No.: 7362

Examiner: Chun Crowder

Art Unit: 1644

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER
37 CFR §1.97 and §1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The documents cited on attached forms PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of documents AU, AV and AZ-BF in compliance with the requirements of 37 C.F.R. §1.98(a)(2) are enclosed. A copy of document AW was previously provided with copies of other documents and form PTO-1449 via a Communication mailed March 10, 2005. Unfortunately, that earlier filed form PTO-1449 contained an error in the indicated publication date for document AW. The inclusion of the correct information in the current IDS is provided in the interest of compliance with 37 C.F.R. §1.98(b)(4).

The earlier filed form PTO-1449 also included a number of documents among AA to AN which were cited without compliance with 37 C.F.R. §1.98(b)(4). Therefore, Applicants

have included them in the instant form PTO/SB/08A to provide compliance with 37 C.F.R. §1.98(b)(4).

It is respectfully requested that the cited documents be expressly considered during the prosecution of this application, and the documents be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and documents cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Kawai Lau
Reg. No. 44,461

TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 858-350-6100
Fax: 415-576-0300
KL:tsp
60929055 v1

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)***Complete if Known**

| | |
|------------------------|------------------|
| Application Number | 10/687,118 |
| Filing Date | October 15, 2003 |
| First Named Inventor | Hinton, Paul R. |
| Art Unit | 1644 |
| Examiner Name | Chun Crowder |
| Attorney Docket Number | 011823-012610US |

Sheet 1 of 2

U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number Kind Code ² (if known) | | | |
| | AA | US-5,994,514 | 08/14/1991 | Jardieu, et al. | |
| | AB | US-6,165,745 | 04/24/1992 | Ward, et al. | |
| | AC | US-6,528,624 | 03/04/2003 | Idusogie, et al. | |
| | AD | US-5,530,101 | 06/25/1996 | Queen, et al. | |
| | AE | US-5,834,597 | 11/10/1998 | Tso, et al. | |
| | AF | US-7,083,784 B2 | 08/01/2006 | Dall'Acqua, et al. | |
| | AG | US-6,797,493 | 09/28/2004 | Sun, et al. | |
| | AH | US-20030044858A1 | 05/07/1992 | Jardieu, et al. | |
| | AI | US-20030003085A1 | 04/05/1995 | Strom | |
| | AJ | US-20020098193A1 | 03/03/1997 | Ward | |
| | AK | US-20010033842A1 | 08/14/1991 | Jardieu, et al. | |
| | AL | US-2005/0032114 | 02/10/2005 | Hinton, et al. | |
| | AM | US-2005/0276799 | 12/15/2005 | Hinton, et al. | |
| | AN | US-2006/0198840 A1 | 09/07/2006 | Dall'Acqua, et al. | |
| | AO | | | | |
| | AP | | | | |
| | AQ | | | | |
| | AR | | | | |
| | AS | | | | |
| | AT | | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---------------------------|---------------------|-----------------------------------|--------------------------------|--|---|--------------------------|
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | AU | PCT | WO04/092219 | A2 | 10/28/2004 | Protein Design Labs, Inc. | | <input type="checkbox"/> |
| | AV | PCT | WO00/68381 | A1 | 11/18/00 | Zymogenetics, Inc. | | <input type="checkbox"/> |
| | AW* | PCT | WO02/60819 | A2 | 08/08/2002 | Medimmune, Inc. | | <input type="checkbox"/> |
| | AX | | | | | | | <input type="checkbox"/> |
| | AY | | | | | | | <input type="checkbox"/> |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

| | | | | | |
|--|---|----|---|--------------------------|------------------|
| Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/687,118 |
| | | | | Filing Date | October 15, 2003 |
| | | | | First Named Inventor | Hinton, Paul R. |
| | | | | Art Unit | 1644 |
| | | | | Examiner Name | Chun Crowder |
| Sheet | 2 | of | 2 | Attorney Docket Number | 011823-012610US |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|--------------------------|
| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | AZ | KRUEGER, James G., et al. "Successful in vivo blockade of CD25 (high affinity interleukin 2 receptor) on T cells by administration of humanized anti-Tac antibody to patients with psoriasis", <i>J. Am. Acad. Dermatol.</i> (2000) 43(3):448-458 | <input type="checkbox"/> |
| | BA | ELLISON, Jay, et al. "Linkage and sequence homology of two human immunoglobulin γ heavy chain constant region genes", <i>Proc. Natl. Acad. Sci USA</i> (1982) 79:1984-1988 | <input type="checkbox"/> |
| | BB | ATTWOOD, Teresa K. "The Babel of Bioinformatics", <i>Science</i> (2000) 290:1-5 (html format) | <input type="checkbox"/> |
| | BC | SKOLNICK, Jeffrey, et al. <i>Trends in Biotechnology</i> (2000) 18(1):34-39 | <input type="checkbox"/> |
| | BD | DATTA-MANNAN, A., et al. "Humanized IgG ₁ Variants With Differential Binding Properties to the Neonatal Fc Receptor: Relationship to Pharmacokinetics in Mice and Primates", <i>Drug Metabolism and Disposition</i> , [published on Oct. 18, 2006 as doi:10.1124/dmd.106.011734 - DMD#11734, pages 1-47] | <input type="checkbox"/> |
| | BE | DATTA-MANNAN, A., et al. "Monoclonal Antibody Clearance: Impact of modulating the interaction of IgG with FcRn", <i>Journal of Biological Chemistry</i> [in press - published on November 29, 2006 as Ms. M607161200, pages 1-24] | <input type="checkbox"/> |
| | BF | DALL'ACQUA, William F., et al. "Properties of Human IgG1s Engineered for Enhanced Binding to the Neonatal Fc Receptor (FcRn)", <i>Journal of Biological Chemistry</i> (2006) 281(33):23514-23524 | <input type="checkbox"/> |
| | BG | | <input type="checkbox"/> |
| | BH | | <input type="checkbox"/> |
| | BI | | <input type="checkbox"/> |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.